AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-11 (Cancelled).

12. (Previously presented) A field emission display device comprising:

at least one current emitter formed of a doped silicon; and

a substrate having a phosphor coating in at least one region positioned to receive electrons emitted by said current emitter,

said current emitter comprising a treated current emission surface having a reduced atomic concentration of oxygen resulting from treatment of the current emission surface with a plasma enhanced chemical vapor deposition hydrogenation process followed by a nitrogen infusion process.

- 13. (Original) The device according to claim 12, wherein said current emitter resides on a base substrate covered by a barrier film.
- 14. (Original) The device according to claim 13, wherein said barrier film comprises silicon dioxide.
- 15. (Previously presented) The device according to claim 13, wherein said current emitter has a base on said barrier layer and a projecting top connected with said base.
- 16. (Original) The device according to claim 13, wherein a conductive layer is deposited over said barrier film.
- 17. (Original) The device according to claim 16, wherein said conductive layer comprises aluminum.

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18. (Previously presented) The device according to claim 12, wherein said current emitter comprises sides and a tip, said sides being surrounded by an insulating layer to prevent current from radiating out of the sides, wherein said sides do not include any portion of the tip.

- 19. (Original) The device according to claim 18, wherein said insulating layer comprises silicon dioxide.
- 20. (Original) The device according to claim 18, wherein a silicon grid resides on top of said insulating layer.
- 21. (Original) The device according to claim 20, wherein a metal layer resides on top of said grid.
- 22. (Original) The device according to claim 21, wherein a passivation layer resides on top of said metal layer.
- 23. (Original) The device according to claim 22, wherein said passivation layer comprises nitride.
 - 24. (Previously presented) A field emission display device comprising: at least one current emitter formed of a doped silicon; and

a substrate having a phosphor coating on at least a portion of the substrate, said coating positioned to receive electrons emitted by the current emitter,

said current emitter comprising a plasma enhanced chemical vapor deposition hydrogenation process-treated and subsequently nitrogen infusion process-treated current emission surface having a reduced concentration of native oxides.

25. (Previously presented) The device according to claim 24, wherein said treated current emission surface has a reduced atomic concentration of oxygen and silicon.